# **Mathematical Operators**

## Range: 2200-22FF

This file contains an excerpt from the character code tables and list of character names for

The Unicode Standard, Version 17.0 BETA REVIEW DRAFT

This file may be changed at any time without notice to reflect errata, or other updates to the Unicode Standard. See https://www.unicode.org/errata/ for an up-to-date list of errata.

See https://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See https://www.unicode.org/charts/PDF/Unicode-17.0/ for charts showing only the characters added in Unicode 17.0. See https://www.unicode.org/Public/17.0.0/charts/ for a complete archived file of character code charts for Unicode 17.0. See https://www.unicode.org/charts/About.html#Conventions for conventions used in these code charts, and other general information.

## Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 17.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 17.0, online at https://www.unicode.org/versions/Unicode17.0.0/, as well as the Unicode Standard Annexes, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online

## See https://www.unicode.org/ucd/ and https://www.unicode.org/reports/

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

## **Fonts**

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

See https://www.unicode.org/charts/fonts.html for a list.

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	220	221	222	223	224	225	226	227	228	229	22A	22B	22C	22D	22E	22F
0	2200	<u>II</u>	2220	∰ 2230	<b>2</b>	2250	<del>/</del> 2260	<b>≠</b> 2270	<b>★</b> 2280	2290	22A0	<b>3</b>	22C0	22D0	<b>≰</b>	22F0
1	C 2201	2211	<b>4</b> 2221	£ 2231	<b>~</b> 2241	<u>•</u> • 2251	2261	<b>≱</b>	<b>&gt;</b>	2291	22A1	<b>2</b> 2B1	22C1	<b>3</b> 22D1	<b>≱</b>	22F1
2	<u>a</u>	2212	<b>4</b>	<i>\$</i>	<b>~</b>	2252	<b>#</b> 2262	<b>≥</b> 2272	2282	2292	<u>-</u>	<b>2</b> 2B2	22C2	<b>1</b> 22D2	<b>⋢</b>	<b>←</b>
3	2203	2213	2223	<i>∮</i> <sup>2233</sup>	<u>~</u>	2253	2263	2273	2283	2293		22B3	22C3	<b>U</b> 22D3	<b>⋣</b>	22F3
4	<b>∄</b>	2214	<b>†</b> 22224	2234	<b>≯</b> 2244	2254	<u>&lt;</u> 2264	<b>≴</b> 2274	<u></u>	2294	<b>T</b>	<u>22B4</u>	<b>♦</b> 22C4	1 22D4	22E4	<b>લ</b> 22F4
5	Ø 2205	2215	2225	2235	<u>~</u>	2255	2265	<b>2</b> 275	<b>⊅</b> 2285	2295		22B5	• 22C5	# 22D5	7 22E5	<u>-</u>
6	<u>A</u>	2216	# 2226	2236	<b>¥</b> 2246	2256	<u>≤</u>	\$ 2276	2286	2296	<b>-</b>	<b>○</b> 22B6	<b>★</b> 22C6	<b>≪</b> 22D6	<b>₹</b>	22F6
7	<b>V</b>	* 2217	2227	2237	<b>#</b>	2257	<u>&gt;</u>	2277	2287	2297	<b>=</b>	<b>●</b> — <b>O</b> 22B7	<b>*</b> 22C7	>> 22D7	<b>→</b> 22E7	<b>€</b>
8	2208	O 2218	2228	2238	<b>≈</b>	2258	<b>≨</b> 2268	<b>≸</b> 2278	<u></u>	2298	22A8	<b>—</b> O	22C8	22D8	<b>₹</b> 22E8	<u></u>
9	£ 2209	• 2219	2229	_• 2239	<b>%</b>	2259	> 2269	<b>≵</b> 2279	<b>⊅</b> <sub>2289</sub>	2299	22A9	_ <b>I</b> _ 22B9	22C9	>>>> 22D9	<b>}</b> 22E9	<b>€</b>
Α	<b>€</b>	<b>1</b>	U 222A	223A	<u>≈</u>	<b>Y</b> 225A	≪ 226A	<b>≺</b>	<u>Ç</u>	② 229A	- 22AA	<b>T</b>	22CA	<b>≤</b>	<b>Д</b> 22EA	<b>→</b>
В	<b>)</b> 220B	3/ 221B	J 222B	<b>∻</b> 223B	<b>≋</b> 224B	<u>★</u>	>>> 226B	> 227B	⊋ 228B	<b>३</b>	<b>  </b> = 22AB	<u>V</u> 22BB	22CB	<u>&gt;</u>	<b>≯</b> 22EB	<b>D</b>
С	<b>∌</b>	4 221C	∭ 222C	<b>~</b>	224C	<u>△</u> 225C	<b>Q</b> 226C	<b>≼</b>	<b>₩</b> 228C	229C	<b>}</b> ✓ 22AC	7 22BC	Z2CC	22DC	<b>Д</b> 22EC	<b>Đ</b>
D	<b>Э</b>	221D	∭ 222D	223D	) 224D	<u>def</u>	**************************************	≥ 227D	<b>⊍</b> 228D	229D	<b>⊭</b> 22AD	<b>V</b> 22BD	<u>\$\square\$</u> 22CD	> 22DD	<b>≱</b> 22ED	<b>5</b>
Ε	220E	221E	<b>∮</b>		<b>⇒</b> 224E	<u>m</u>	<b>≮</b> 226E	<b>∠</b> 227E	<b>₩</b>	229E	<b>}</b>	22BE	<b>Y</b> 22CE	<b>⋞</b>	• • • 22EE	<b>5</b>
F			∯ 2222F	<b>\</b> 223F	224F	? 225F	≯ 226F	<b>≥</b> 227F		229F	<b>}</b>	22BF	<b>人</b>	>> 22DF	• • • 22EF	22FF

Misce	llan	eous mathematical symbols	Opera	ators	
2200	∀	FOR ALL	2212	_	MINUS SIGN
2200	٧	= universal quantifier	2212		→ 002D - hyphen-minus
2201	С	COMPLEMENT			→ 2796 — heavy minus sign
	Ü	$\rightarrow$ 0297 c latin letter stretched c	2213	<b></b>	MINUS-OR-PLUS SIGN
2202	д	PARTIAL DIFFERENTIAL	2210	+	→ 00B1 ± plus-minus sign
2203		THERE EXISTS	2214	÷	DOT PLUS
2200	_	= existential quantifier	2215	/	DIVISION SLASH
2204	∄	THERE DOES NOT EXIST	2213	/	
2201	-	= 2203 ∃ 0338 Ø			<ul> <li>generic division operator</li> <li>→ 002F / solidus</li> </ul>
2205	Ø	EMPTY SET			→ 2044/ fraction slash
2200	Ø	= null set			→ 27CB / mathematical rising diagonal
		• used in linguistics to indicate a null morpheme	2216	_	SET MINUS
		or phonological "zero"	2210	`	→ 005C\ reverse solidus
		$\rightarrow$ 00D8 $\emptyset$ latin capital letter o with stroke			→ 27CD \ mathematical falling diagonal
		→ 2300 ø diameter sign			$\rightarrow$ 29F5 \ reverse solidus operator
		~ 2205 FE00 Ø zero with long diagonal stroke	2217	*	ASTERISK OPERATOR
		overlay form	2211	*	
2206	$\Delta$	INCREMENT			<ul> <li>may be used to represent the telephony asterisk seen on keypads</li> </ul>
		= Laplace operator			→ 002A * asterisk
		= forward difference	2218	۰	RING OPERATOR
		= symmetric difference (in set theory)	2210		= composite function
		• other symbols may also be used for symmetric			= APL jot
		difference			→ 00B0° degree sign
		→ 0394 ∆ greek capital letter delta			→ 0970 ° devanagari abbreviation sign
2207	$\nabla$	$\rightarrow$ 25B3 $\triangle$ white up-pointing triangle			→ 25E6 • white bullet
2207	$\nabla$	NABLA = backward difference			→ 10B39 ° avestan abbreviation mark
		= gradient, del	2219	•	BULLET OPERATOR
		• used for Laplacian operator (written with			→ 00B7 · middle dot
		superscript 2)			→ 2022 • bullet
		$\rightarrow$ 25BD $\nabla$ white down-pointing triangle			$\rightarrow$ 2024 . one dot leader
Sat m	omb	pership	221A		SQUARE ROOT
		•			= radical sign
2208		ELEMENT OF		2 /	→ 2713 ✓ check mark
2209	∉	NOT AN ELEMENT OF	221B	$\sqrt[3]{}$	CUBE ROOT
2204	_	= 2208 € 0338 Ø		4./	→ 0606 🎖 arabic-indic cube root
220A	€	SMALL ELEMENT OF	221C	$\sqrt[4]{}$	FOURTH ROOT
		<ul> <li>originates in math pi fonts; not the straight epsilon</li> </ul>			→ 0607 🌣 arabic-indic fourth root
		→ 03F5 € greek lunate epsilon symbol	221D	$\propto$	PROPORTIONAL TO
220B	∋	CONTAINS AS MEMBER			ightarrow 03B1 $lpha$ greek small letter alpha
ZZVD	_	= such that	Misce	llane	eous mathematical symbol
220C	∌	DOES NOT CONTAIN AS MEMBER	221E	$\infty$	INFINITY
	7	= 220B → 0338 Ø			
220D	∍	SMALL CONTAINS AS MEMBER	Angle		
		→ 03F6 → greek reversed lunate epsilon symbol		_	e symbols are found at 299B-29AF.
N4:			221F	L	
		eous mathematical symbol			= with (in chess notation)
220E		END OF PROOF			→ 2BFE → reversed right angle
		= q.e.d.	2220	_	ANGLE
		→ 2023 ► triangular bullet			• used in astrological contexts for aspect
		→ 25AE  black vertical rectangle			semisquare
N-ary		rators			→ 299F ∠ acute angle
	ope	iators	2224		
220F	оре П	N-ARY PRODUCT	2221	4	MEASURED ANGLE
220F		N-ARY PRODUCT = product sign	2221 2222	∡ ∢	MEASURED ANGLE SPHERICAL ANGLE
220F		N-ARY PRODUCT		-	MEASURED ANGLE
220F 2210		N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT		dions	MEASURED ANGLE SPHERICAL ANGLE
2210	П	N-ARY PRODUCT = product sign $\rightarrow$ 03A0 $\Pi$ greek capital letter pi N-ARY COPRODUCT = coproduct sign	2222	∢	MEASURED ANGLE SPHERICAL ANGLE
	П	N-ARY PRODUCT = product sign → 03A0 ∏ greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION	2222 Relati	dions	MEASURED ANGLE SPHERICAL ANGLE = angle arc  DIVIDES = such that
2210	П	N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign	2222 Relati	dions	MEASURED ANGLE SPHERICAL ANGLE = angle arc  DIVIDES = such that = APL stile
2210	П	N-ARY PRODUCT = product sign $\rightarrow$ 03A0 $\Pi$ greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign $\rightarrow$ 03A3 $\Sigma$ greek capital letter sigma	2222 Relati	dions	MEASURED ANGLE SPHERICAL ANGLE = angle arc  DIVIDES = such that = APL stile → 007C   vertical line
2210	П	N-ARY PRODUCT = product sign → 03A0 Π greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign	2222 Relati 2223	ions	MEASURED ANGLE  SPHERICAL ANGLE  = angle arc  DIVIDES  = such that  = APL stile  → 007C   vertical line  → 01C0   latin letter dental click
2210	П	N-ARY PRODUCT = product sign $\rightarrow$ 03A0 $\Pi$ greek capital letter pi N-ARY COPRODUCT = coproduct sign N-ARY SUMMATION = summation sign $\rightarrow$ 03A3 $\Sigma$ greek capital letter sigma	2222 Relati	dions	MEASURED ANGLE SPHERICAL ANGLE = angle arc  DIVIDES = such that = APL stile → 007C   vertical line

2225	II	PARALLEL TO  → 01C1   latin letter lateral click	Opera 223A	ator ∺	GEOMETRIC PROPORTION
		→ 2016    double vertical line			GEOMETRIC PROPORTION
2226	#	NOT PARALLEL TO	Relati		
		<b>≡</b> 2225 <b>  </b> 0338 Ø	223B	∻	HOMOTHETIC
Logic	al an	d set operators	223C		→ 2A6B < tilde operator with rising dots
2227		LOGICAL AND	2230	~	TILDE OPERATOR = varies with (proportional to)
	, (	= wedge, conjunction			= difference between
		→ 22C0 \(\hat{\chi}\) n-ary logical and			= similar to
		→ 2303 ^ up arrowhead			= not
		$\rightarrow$ 27D1 $^{A}$ and with dot			= cycle
2228	V	LOGICAL OR			= APL tilde
		= vee, disjunction			→ 007E ~ tilde
		→ 22C1 V n-ary logical or			$\rightarrow$ 00AC ¬ not sign $\rightarrow$ 02DC ~ small tilde
		<ul> <li>→ 2304 v down arrowhead</li> <li>→ 27C7 v or with dot inside</li> </ul>	223D	$\sim$	REVERSED TILDE
2229	Λ	INTERSECTION	2200		= lazy S
ZZZJ	- ' '	= cap, hat			• reversed tilde and lazy S are glyph variants
		$\rightarrow$ 22C2 $\bigcap$ n-ary intersection	223E	2	INVERTED LAZY S
		~ 2229 FE00 ∩ with serifs			= most positive
222A	U	UNION	Misce	llane	eous mathematical symbol
		= cup	223F	$\sim$	SINE WAVE
		$\rightarrow$ 22C3 $\bigcup$ n-ary union			= alternating current
		~ 222A FE00 U with serifs	Opera	ator	
Integ	rals		2240		WREATH PRODUCT
222B	ſ	INTEGRAL		-	WILL THE BOCK
	00	$\rightarrow$ 0283 $\int$ latin small letter esh	Relati		NOTTURE
222C	$\iint$	DOUBLE INTEGRAL	2241	×	NOT TILDE
0000	ccc	≈ 222B ∫ 222B ∫	2242	_	≡ 223C ~ 0338 Ø
222D	JJJ	TRIPLE INTEGRAL	2242		MINUS TILDE ASYMPTOTICALLY EQUAL TO
		→ 2AOC ∭ quadruple integral operator	2243		NOT ASYMPTOTICALLY EQUAL TO
222E	$\phi$	≈ 222B $\int$ 222B $\int$ 222B $\int$ CONTOUR INTEGRAL	2277	+	= 2243 ≈ 0338 \$\psi\$
ZZZL	$\mathcal{S}$	→ 2A15 ∮ integral around a point operator	2245	$\simeq$	APPROXIMATELY EQUAL TO
222F	∯	SURFACE INTEGRAL		_	→ 2A70 ≅ approximately equal or equal to
	Л	≈ 222E ∮ 222E ∮	2246	$\cong$	APPROXIMATELY BUT NOT ACTUALLY EQUAL
2230	∰	VOLUMÉ INTEGRAL			ТО
	555	≈ 222E ∮ 222E ∮ 222E ∮	2247	≇	NEITHER APPROXIMATELY NOR ACTUALLY
2231	£	CLOCKWISE INTEGRAL			EQUAL TO = 2245 × .0339 4
2232	,	CLOCKWISE CONTOUR INTEGRAL	2248	≈	≡ 2245 ≅ 0338 Ø ALMOST EQUAL TO
2233	∲	ANTICLOCKWISE CONTOUR INTEGRAL	2240	~	= asymptotic to
		clockwise or anticlockwise arrows do not	2249	<b>≉</b>	NOT ALMOST EQUAL TO
		reverse during layout mirroring		•	≡ 2248 ≈ 0338 Ø
		eous mathematical symbols	224A	≊	ALMOST EQUAL OR EQUAL TO
2234	$\ddot{\cdot}$	THEREFORE	224B	≋	TRIPLE TILDE
0005		→ 26EC •• historic site	224C	$\cong$	ALL EQUAL TO
2235		BECAUSE	ac :-		• reversed tilde and lazy S are glyph variants
Relati	ions		224D	$\simeq$	EQUIVALENT TO
2236	:	RATIO	224E		GEOMETRICALLY EQUIVALENT TO
		• preferred to 003A: for denotation of division or	224F	<u>~</u>	DIFFERENCE BETWEEN
		scale in mathematical use	2250 2251	<b>≐</b>	APPROACHES THE LIMIT
2237		→ 003A: colon	2251	<b>≑</b> <b>≒</b>	GEOMETRICALLY EQUAL TO APPROXIMATELY EQUAL TO OR THE IMAGE OF
	::	PROPORTION	<b>LLUL</b>	-	= nearly equals
Opera			2253	≓	IMAGE OF OR APPROXIMATELY EQUAL TO
2238	÷	DOT MINUS	2254	-	COLON EQUALS
		= saturating subtraction	2255		EQUALS COLON
		• sometimes claimed as notation for symmetric set difference, but 2206 Δ is preferred	2256	•	RING IN EQUAL TO
		set difference, but 2200 A is preferred	2257	<u>•</u>	RING EQUAL TO
Relati		FVCFCC	0050	_	= approximately equal to
2239	-:	EXCESS	2258	≘	CORRESPONDS TO

2259	$\triangleq$	ESTIMATES	2279	≹	NEITHER GREATER-THAN NOR LESS-THAN
		= corresponds to		, ,	<b>≡</b> 2277 ≥ 0338 Ø
225A		EQUIANGULAR TO	227A	~	
225B		STAR EQUALS			= lower rank than
225C	≜	DELTA EQUAL TO			→ 22B0 ⊰ precedes under relation
		= equiangular	227B	$\succ$	SUCCEEDS
0050	def	= equal to by definition			= higher rank than
225D	<u>def</u>	EQUAL TO BY DEFINITION			→ 22B1 ⊱ succeeds under relation
225E	<u>m</u>	MEASURED BY	227C		PRECEDES OR EQUAL TO
225F		QUESTIONED EQUAL TO	227D	≽	
2260	<b>≠</b>	NOT EQUAL TO	227E		PRECEDES OR EQUIVALENT TO
		$\rightarrow$ 003D = equals sign	227F	≿	
		→ 01C2 ‡ latin letter alveolar click	2280	$\star$	
0004		≡ 003D = 0338 Ø	0004	,	≡ 227A < 0338 Ø
2261		IDENTICAL TO	2281	$\neq$	DOES NOT SUCCEED
2262	≠	NOT IDENTICAL TO	0000	_	≡ 227B ≻ 0338 Ø
2262	_	$\equiv 2261 \equiv 0338  \phi$	2282	$\subset$	
2263 2264		STRICTLY EQUIVALENT TO			= included in set
2204	_	LESS-THAN OR EQUAL TO	2283	D	→ 2E26 ⊂ left sideways u bracket SUPERSET OF
2265	_	→ 003C < less-than sign GREATER-THAN OR EQUAL TO	2203	ر	= includes in set
2200	≥				→ 2E27 ⊃ right sideways u bracket
2266	_	→ 003E > greater-than sign	2284	⊄	
2267	=	LESS-THAN OVER EQUAL TO GREATER-THAN OVER EQUAL TO	2204	У <u> —                                   </u>	= 2282 ⊂ 0338 \$\varphi\$
2268	VII ∧II ∨¥	LESS-THAN BUT NOT EQUAL TO	2285	⊅	NOT A SUPERSET OF
2200	≠	→ 2A87 \( \square\) less-than and single-line not equal to	2200	7	≡ 2283 ⊃ 0338 Ø
		~ 2268 FE00 ≨ with vertical stroke	2286	$\subset$	SUBSET OF OR EQUAL TO
2269	≩	GREATER-THAN BUT NOT EQUAL TO	2287	_	
2200	≠	$\rightarrow$ 2A88 $\geqslant$ greater-than and single-line not equal	2288	⊈	NEITHER A SUBSET OF NOR EQUAL TO
		to		#	= 2286 ⊆ 0338 Ø
		~ 2269 FE00 ≩ with vertical stroke	2289	⊅	NEITHER A SUPERSET OF NOR EQUAL TO
226A	<b>«</b>	MUCH LESS-THAN		<del>/</del>	≡ 2287 ⊇ 0338 Ø
		→ 00AB « left-pointing double angle quotation	228A	⊊	SUBSET OF WITH NOT EQUAL TO
		mark		+	~ 228A FE00 ⊊ with stroke through bottom
226B	$\gg$	MUCH GREATER-THAN			members
		→ 00BB » right-pointing double angle	228B	⊋	SUPERSET OF WITH NOT EQUAL TO
		quotation mark			~ 228B FE00 ⊋ with stroke through bottom
226C	Ŏ	BETWEEN			members
0000		= plaintiff, quantic	Opera	ators	5
226D	$ \neq$	NOT EQUIVALENT TO	228C	⊌	MULTISET
2205	4	≡ 224D ≈ 0338 ¢	228D	⊍	MULTISET MULTIPLICATION
226E	≮	NOT LESS-THAN		•	→ 2A03 U n-ary union operator with dot
2265	. /	■ 003C < 0338 Ø			$\rightarrow$ 2A40 $\cap$ intersection with dot
226F	≯	NOT GREATER-THAN	228E	⊎	MULTISET UNION
2270	¥	≡ 003E > 0338 Ø			= z notation bag addition
2270	≰	NEITHER LESS-THAN NOR EQUAL TO			$\rightarrow$ 2A04 $\biguplus$ n-ary union operator with plus
2271	4	≡ 2264 ≤ 0338 Ø	Relati	ions	<del>-</del>
2211	≱	NEITHER GREATER-THAN NOR EQUAL TO	228F		SOLIADE IMAGE OF
2272	_	= 2265 ≥ 0338 Ø	2290		SQUARE IMAGE OF SQUARE ORIGINAL OF
2212	≲	LESS-THAN OR EQUIVALENT TO  ~ 2272 FE00   following the slant of the lower	2290		
		leg	2291	╘	SQUARE IMAGE OF OR EQUAL TO
2273	≳	GREATER-THAN OR EQUIVALENT TO		_	
22.0	~	~ 2273 FE00 ≥ following the slant of the lower	Opera	ators	5
		leg	2293	П	SQUARE CAP
2274	≴	NEITHER LESS-THAN NOR EQUIVALENT TO			$\rightarrow$ 2A05 $\prod$ n-ary square intersection operator
	.,-	≡ 2272 ≲ 0338 Ø			$\sim$ 2293 FE00 $\Pi$ with serifs
2275	≵	NEITHER GREATER-THAN NOR EQUIVALENT TO	2294	Ц	SQUARE CUP
	-	<b>≡</b> 2273 ≳ 0338 Ø			$\rightarrow$ 2A06 $\coprod$ n-ary square union operator
2276	≶	LESS-THAN OR GREATER-THAN			~ 2294 FE00 ⊔ with serifs
2277	≷	GREATER-THAN OR LESS-THAN			
2278	≸	NEITHER LESS-THAN NOR GREATER-THAN			
		<b>≡</b> 2276 <b>≶</b> 0338 <b>Ø</b>			

2295	$\oplus$	CIRCLED PLUS	Relat	ions	
		= direct sum	22A6	F	ASSERTION
		<ul><li>= vector pointing into page</li><li>→ 2A01 ⊕ n-ary circled plus operator</li></ul>	0047		= reduces to
		→ 1F728 ⊕ alchemical symbol for verdigris	22A7	<b> </b>	MODELS
		~ 2295 FE00 ⊕ with white rim	22A8	F	TRUE = statement is true, valid
2296	$\Theta$	CIRCLED MINUS			= is a tautology
		= symmetric difference			= satisfies
		→ 29B5 ← circle with horizontal bar			= results in
2297	_	→ 1F714 → alchemical symbol for salt CIRCLED TIMES	22A9	II-	
2291	$\otimes$	= tensor product	22AA 22AB	⊪	TRIPLE VERTICAL BAR RIGHT TURNSTILE
		= vector pointing into page	ZZAB	I⊨	DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
		→ 26D2 🛇 circled crossing lanes	22AC	¥	DOES NOT PROVE
		→ 2A02 🚫 n-ary circled times operator			≡ 22A2 ⊢ 0338 Ø
		→ 2BBE ⊗ circled x	22AD	¥	NOT TRUE
		→ 1F774 ⊗ lot of fortune			≡ 22A8 ⊨ 0338 Ø
2298	0	~ 2297 FE00 ⊗ with white rim CIRCLED DIVISION SLASH	22AE	$\mathbb{H}$	
2299	0	CIRCLED DOT OPERATOR	22AF	J⊭	≡ 22A9 I⊢ 0338 Ø NEGATED DOUBLE VERTICAL BAR DOUBLE
2200	O	= direct product	ZZAF	<i>¥</i> −	RIGHT TURNSTILE
		= vector pointing out of page			≡ 22AB I⊨ 0338 Ø
		→ 0298 ⊙ latin letter bilabial click	22B0	⊰	PRECEDES UNDER RELATION
		→ 2609 ⊙ sun			→ 227A ≺ precedes
229A	0	→ 2A00 ⊙ n-ary circled dot operator CIRCLED RING OPERATOR	22B1	ځ	SUCCEEDS UNDER RELATION
2237	o	→ 233E   apl functional symbol circle jot	0000		→ 227B > succeeds
		→ 25CE ② bullseye	22B2	⊲	NORMAL SUBGROUP OF
229B	*	CIRCLED ASTERISK OPERATOR	22B3	<b>&gt;</b>	→ 25C5 < white left-pointing pointer CONTAINS AS NORMAL SUBGROUP
		→ 235F 🏵 apl functional symbol circle star	2200		→ 25BB \( \text{white right-pointing pointer} \)
229C		CIRCLED EQUALS	22B4	⊴	NORMAL SUBGROUP OF OR EQUAL TO
		<ul> <li>NoDerivatives (symbol used for Creative Commons licenses)</li> </ul>	22B5	⊵	CONTAINS AS NORMAL SUBGROUP OR EQUAL
		→ 1F16D  circled cc			TO
		~ 229C FE00 ⊜ with equal sign touching the	22B6		ORIGINAL OF
		circle	22B7 22B8	•••	
229D		CIRCLED DASH	22B0 22B9	⊸ ⊹	MULTIMAP HERMITIAN CONJUGATE MATRIX
229E		SQUARED PLUS			
229F 22A0		SQUARED MINUS SQUARED TIMES	Opera		
ZZAU	$\boxtimes$	$\rightarrow$ 2612 $\boxtimes$ ballot box with x	22BA 22BB	T	INTERCALATE XOR
		→ 26DD X squared saltire	ZZDD	V	→ 26BA ¥ semisextile
		→ 1F771 🛛 alchemical symbol for month	22BC	⊼	NAND
22A1	$\Box$	SQUARED DOT OPERATOR		, ,	→ 2305 ⊼ projective
		→ 1F755 alchemical symbol for urine			→ 26BB π quincunx
0040		→ 1FBBC <b>_</b> right open squared dot	22BD	$\nabla$	NOR
22A2	⊢	RIGHT TACK = turnstile	Misce	llan	eous mathematical symbols
		= proves, implies, yields	22BE	Ь	RIGHT ANGLE WITH ARC
		= reducible	22BF	$\triangle$	RIGHT TRIANGLE
22A3	$\dashv$	LEFT TACK	N-ary	ope	rators
		= reverse turnstile		-	N-ARY LOGICAL AND
		= non-theorem, does not yield		, ,	• also used to denote the universal quantifier
		eous mathematical symbols			→ 2227 ∧ logical and
22A4	Т	DOWN TACK	22C1	V	
		= top → 2E06 <sup>T</sup> raised interpolation marker			• also used to denote the existential quantifier
		→ 1F768 ∓ alchemical symbol for crucible-4	22C2	$\cap$	→ 2228 ∨ logical or N-ARY INTERSECTION
22A5	$\perp$	UP TACK	2202	ΙI	= z notation generalised intersection
		= base, bottom			$\rightarrow$ 2229 $\cap$ intersection
		→ 27C2 ⊥ perpendicular	22C3	U	
				-	= z notation generalised union
					→ 222A U union

Operator	¢	22E1	≱	DOES NOT SUCCEED OR EQUAL
22C4 •	DIAMOND OPERATOR		7	= 227D ≥ 0338 Ø
2204	→ 25C7 ♦ white diamond	22E2	⊭	NOT SQUARE IMAGE OF OR EQUAL TO
	→ 2B29 ◆ black small diamond			<b>≡</b> 2291 <b>⊑</b> 0338 ∮
22C5 ·	DOT OPERATOR	22E3	⊉	NOT SQUARE ORIGINAL OF OR EQUAL TO
	• preferred to 00B7 • for denotation of	0054	_	= 2292  □ 0338  Ø
	multiplication → 00B7 · middle dot	22E4 22E5	Ę	SQUARE IMAGE OF OR NOT EQUAL TO SQUARE ORIGINAL OF OR NOT EQUAL TO
22C6 *	STAR OPERATOR	22E6	⊒ ≴	LESS-THAN BUT NOT EQUIVALENT TO
2200	• APL	22E7	% >≠	GREATER-THAN BUT NOT EQUIVALENT TO
	→ 066D ★ arabic five pointed star	22E8	<i></i> ≾	PRECEDES BUT NOT EQUIVALENT TO
	→ 2605 ★ black star	22E9	*~	SUCCEEDS BUT NOT EQUIVALENT TO
0007	→ 2B50 ★ white medium star	22EA	⋪	NOT NORMAL SUBGROUP OF
22C7 **	DIVISION TIMES	0055	,	= 22B2 <b>→</b> 0338 Ø
	<ul> <li>ambiguous sign conflating two operators</li> <li>→ 00B1 ± plus-minus sign</li> </ul>	22EB	⋫	DOES NOT CONTAIN AS NORMAL SUBGROUP
	$\rightarrow$ 00D7 $\times$ multiplication sign	22EC	⊉	≡ 22B3 ⊳ 0338 ¢  NOT NORMAL SUBGROUP OF OR EQUAL TO
	→ 00F7 ÷ division sign	ZZLO	#	= 22B4 ≤ 0338 Ø
	→ 2715 <b>X</b> multiplication x	22ED	⊭	DOES NOT CONTAIN AS NORMAL SUBGROUP
Relation			,	OR EQUAL
22C8 ⋈	BOWTIE			≡ 22B5 <b>⊵</b> 0338 Ø
	→ 2445 M ocr bow tie	Matri	x ell	ipses
Operator	s			ellipsis characters are used for matrix row/column
22C9 ⋉	LEFT NORMAL FACTOR SEMIDIRECT PRODUCT	elision		V
22CA ⋊		22EE	÷	VERTICAL ELLIPSIS
0000	PRODUCT			→ 205D: tricolon → 2026 horizontal ellipsis
22CB ⋋ 22CC ⋌	LEFT SEMIDIRECT PRODUCT			→ FE19: presentation form for vertical
2200 X	RIGHT SEMIDIRECT PRODUCT  → 2041 $_{\perp}$ caret insertion point			horizontal ellipsis
Daladaa	→ 2041 X Caret insertion point	22EF	•••	MIDLINE HORIZONTAL ELLIPSIS
Relation		22F0		UP RIGHT DIAGONAL ELLIPSIS
22CD ∽	•	22F1	٠.	DOWN RIGHT DIAGONAL ELLIPSIS
Logical o	perators	Relati	ions	
Logical o	perators CURLY LOGICAL OR		ions	ELEMENT OF WITH LONG HORIZONTAL
Logical o 22CE Y 22CF A	perators  CURLY LOGICAL OR  CURLY LOGICAL AND	Relati 22F2	ions ∈	ELEMENT OF WITH LONG HORIZONTAL STROKE
Logical o 22CE Y 22CF A Relations	perators  CURLY LOGICAL OR  CURLY LOGICAL AND	Relati	ions ∈	ELEMENT OF WITH LONG HORIZONTAL
Logical o 22CE y 22CF ∧ Relations 22D0 €	Perators  CURLY LOGICAL OR  CURLY LOGICAL AND  DOUBLE SUBSET	Relati 22F2	ions ∈	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT
Logical o 22CE Y 22CF A Relations 22D0 € 22D1 ∋	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET	22F2 22F3 22F4	ions ← ∈	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
Logical o 22CE ∨ 22CF ∧ Relations 22D0 ∈ 22D1 ∋ Operator	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET	Relati 22F2 22F3 22F4 22F5	ions  E	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE
Logical o 22CE ∨ 22CF ∧ Relations 22D0 ∈ 22D1 ∋ Operator 22D2 ⋒	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  DOUBLE SUPERSET	Relati 22F2 22F3 22F4 22F5 22F6	ions ∈ □ □	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION	Relati 22F2 22F3 22F4 22F5 22F6 22F7	ions ⊕ • • • • • •	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR
Logical o 22CE Y 22CF A Relations 22D0 € 22D1 ∋ Operator 22D2 ⋒ 22D3 ⊎ Relations	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION	Relati 22F2 22F3 22F4 22F5 22F6	ions ← ⋳ ⋴ ⊷ ⊢ ∊	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9		ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES
Logical o 22CE Y 22CF A Relations 22D0 € 22D1 ∋ Operator 22D2 ⋒ 22D3 ⊎ Relations 22D4 ♠	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA	ions ← ④ ⋴ · ⊖ ⋶ ⋷ ⊖ ⋹ →	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE
Logical o 22CE Y 22CF A Relations 22D0 € 22D1 ∋ Operator 22D2 ⋒ 22D3 ⊎ Relations	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9	ions	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF
Logical o 22CE Y 22CF A Relations 22D0 € 22D1 ∋ Operator 22D2 ⋒ 22D3 ⊎ Relations 22D4 ♠	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB	ions ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
Logical o 22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA	ions ← ④ ⋴ · ⊖ ⋶ ⋷ ⊖ ⋹ →	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD	ions ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal GREATER-THAN EQUAL TO OR LESS-THAN	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal GREATER-THAN EQUAL TO OR LESS-THAN  ~ 22DB FE00  with slanted equal	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal GREATER-THAN EQUAL TO OR LESS-THAN  ~ 22DB FE00  with slanted equal EQUAL TO OR LESS-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR PRECEDES	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal GREATER-THAN EQUAL TO OR LESS-THAN  ~ 22DB FE00  with slanted equal EQUAL TO OR LESS-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR PRECEDES EQUAL TO OR SUCCEEDS	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR
Logical o  22CE	CURLY LOGICAL OR CURLY LOGICAL AND  DOUBLE SUBSET DOUBLE SUPERSET  S  DOUBLE INTERSECTION DOUBLE UNION  PITCHFORK = proper intersection EQUAL AND PARALLEL TO  → 2317 ‡ viewdata square LESS-THAN WITH DOT GREATER-THAN WITH DOT VERY MUCH LESS-THAN VERY MUCH GREATER-THAN LESS-THAN EQUAL TO OR GREATER-THAN  ~ 22DA FE00  with slanted equal GREATER-THAN EQUAL TO OR LESS-THAN  ~ 22DB FE00  with slanted equal EQUAL TO OR LESS-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR GREATER-THAN EQUAL TO OR PRECEDES	Relati 22F2 22F3 22F4 22F5 22F6 22F7 22F8 22F9 22FA 22FB 22FC 22FD 22FE	ions ← Œ ª ·€IE·ē·⊆ € ∱Ð ₽ IÐ Þ	ELEMENT OF WITH LONG HORIZONTAL STROKE ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE ELEMENT OF WITH DOT ABOVE ELEMENT OF WITH OVERBAR SMALL ELEMENT OF WITH OVERBAR ELEMENT OF WITH UNDERBAR ELEMENT OF WITH TWO HORIZONTAL STROKES CONTAINS WITH LONG HORIZONTAL STROKE CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE CONTAINS WITH OVERBAR SMALL CONTAINS WITH OVERBAR

Standar	dized Va	ariation Sequences	2293		COLLADE CAD
2205	$\varnothing$	EMPTY SET		2202	SQUARE CAP
	2205 Ø	zero with long diagonal stroke overlay form		2293	with serifs
2229	2205 FE00	INTERSECTION	2294	2294	SQUARE CUP
	2229	with serifs	0005	2294 FE00	with serifs
222A	2229 FE00	UNION	2295	2295	CIRCLED PLUS
	<u></u>	with serifs	2297	2295 FE00	with white rim
2268	222A FE00  2268	LESS-THAN BUT NOT EQUAL TO	2291	2297	CIRCLED TIMES
	$\stackrel{\leq}{=}$	with vertical stroke	229C	2297 FE00	with white rim
2269	2268 FE00 2269	GREATER-THAN BUT NOT EQUAL TO	2200	2290	CIRCLED EQUALS with equal sign touching the circle
	2269 FE00	with vertical stroke	22DA	229C FE00	LESS-THAN EQUAL TO OR GREATER-
2272	2272	LESS-THAN OR EQUIVALENT TO		22DA	THAN with slanted equal
	€ 2272 FE00	following the slant of the lower leg	22DB	22DA FE00	GREATER-THAN EOUAL TO OR LESS-
2273	2273	GREATER-THAN OR EQUIVALENT TO		22DB	THAN with slanted equal
	2273 FE00	following the slant of the lower leg		22DB FE00	·
228A	<u>Ç</u>	SUBSET OF WITH NOT EQUAL TO			
	<b></b> 228A FE00	with stroke through bottom members			
228B	<b>⊋</b> 228B	SUPERSET OF WITH NOT EQUAL TO			
	<b>2</b> 28B FE00	with stroke through bottom members			